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GCSS-AF

Summary



Capt Matthew Kuhn GCSS-AF Test and Security Project Manager ESC/NI2

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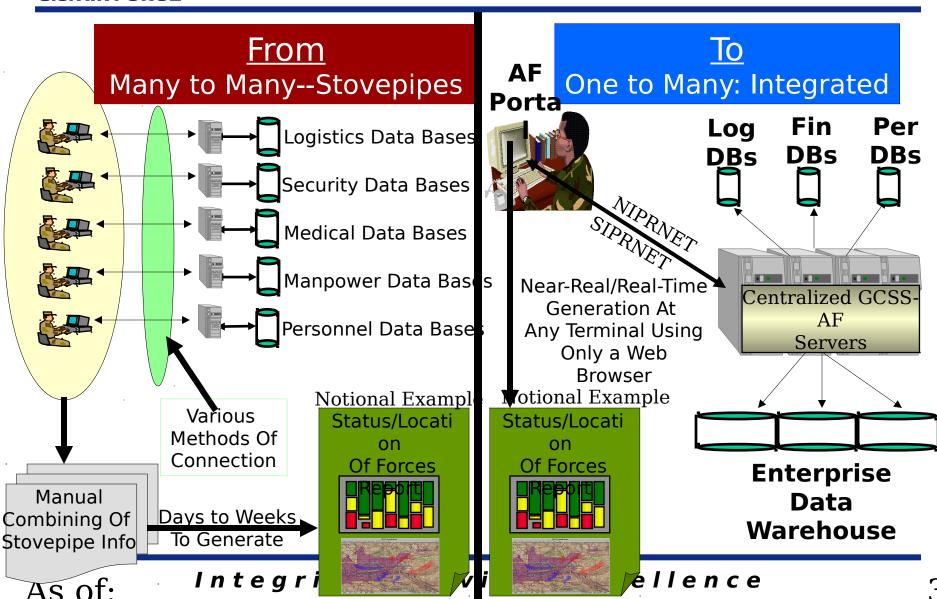




- GCSS-AF Summary
- What is it?
- Why GCSS-AF, Business Benefits
- GCSS/GCCS Summit
- Hardware/Software Acquisition
- Level 4 Integration
- FY03 Accomplishments
- FY04 Outlook
- Contact Information

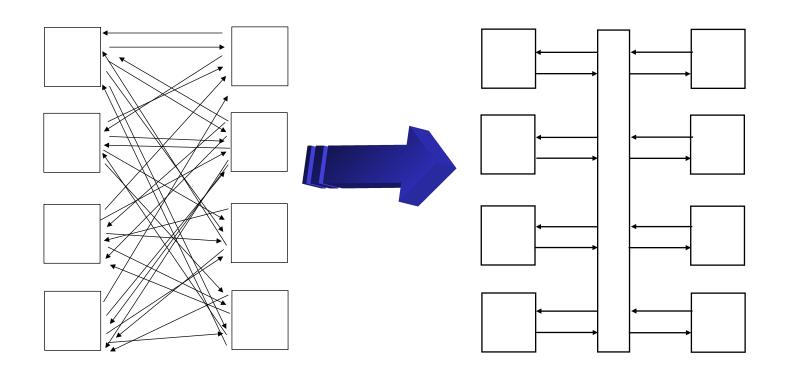


Purpose of GCSS-AF





From <many to many> to <many to one>



Business Areas Supported



Combat Support

Chaplain

Ehdineering
Communications
Comptroll
Efontracting
Health Services
Legal
Logistics Plans

Acquisition

Maintenan

Ce
Materiel Managem

Munitions

OSI

Personnel
Public Affairs
Quality and Manpower

Safety
Security Forces
Services

Support

<u> Transportation</u>

640+ Systems
250+ Locations Worldwide
>20,000 concurrent Warfighters on-line
300,000+ Warfighters/Users Worldwide



Why GCSS-AF? AF Business Benefits

- Enterprise Consolidation of Capital Purchases Scale efficiencies
 - Hardware & Software Products & Maintenance
 - Product Agnostic Mixed with Economic Pragmatism
- Common production platforms: Fixed Content (web sites) and Data Warehousing
- Operations and Maintenance Labor & Expertise
- Enterprise Engineering Enabling:
 - Interface Standards and Consolidation, Common Security Layer, Presentation (Portal) Standard and Consolidation,
 - Certification Foundation for All Functional Apps: SSAA, CoN, C4ISP, -- "Plug into GCSS-AF"
 - Enterprise Tuning / Load Balancing



Consensus Leaving July GCSS/GCCS Summit

- Field common arch across C2 and CS domains
 - Embody core architecture with preferred products, where possible & makes sense
 - Exploit economic efficiencies ... commodities
 - Minimize integration costs
 - Provide common technical foundation to ease integration
- Allow deviations based on:
 - Operational necessities
 - Business cases
 - Emerging technologies



Product Acquisition

- Determine if need for an enterprise capability exists
- Product assessment done by Prime Contractor
 - Inputs from customer with enterprise in mind
- Once a product is selected:
 - Software
 - GCSS-AF with contracting negotiates for an AF enterprise license for the capability
 - "Free" to the rest of the AF
 - Hardware
 - Requirement is put out for bid
 - Select source based on best cost for the enterprise



Integration Through Partnerships

- Second Site with IL SPO ... perhaps 3rd site with SG & DP
- Data strategy with C2 community ... AC SPO
- Enterprise Information Management (EIM) with MSG/MM: We want to "push content" and they're focused on Knowledge Management (SG pilot)
- SIPRNET GCSS-AF/Portal with Air Intel Agency
- CS data to C2 World with DISA & JCS/J4
- CINC 57 pilots with 4 functionals, munitions in prod now
- Real Single Sign-On (SSO) with AFDS & AFPC
- Rationalizing data transfer to OLAP tools with EDW
- Other product exploitations with other communities

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CoN Streamlining through GCSS-AF

- Based off of Gen Croom's Letter
- Rewards applications that have designed for GCSS-AF integration
- If the criteria for Level 4 are met, applications will not need to get their own CoN
- Partnered with AFCA to bring this to reality

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Interactive Security

- Interactive authentication and session establishment must be done via the GCSS-AF security services. This can be done with individual accounts that are protected by username/password or PKI that are administered in the GCSS-AF User Registry. The administration and control of the application access control is delegated back to the application owner via a web interface
- The application must not have alternative interfaces that grant interactive access to logic and/or data hosted by the framework on behalf of the application



Process-to-Process Security

Application logic and/or data level process-toprocess authentication between a process under operation control of GCSS-AF and external processes not under the control of GCSS-AF will be mutually authenticated by server certificates issued by DOD-PKI. This connectivity can not be implemented with passwords or self-signed certificates



Data Flows Review

- In order to migrate and support the application, a high-level overview will be developed for each migrating application. Any data flows that are between an application running under the GCSS-AF CON and external environments will meet the DoD Discovery Metadata Standard regarding the documentation of technical connectivity, data content, frequency of transfer, volume of transfer and business purpose. This information will be entered in the GCSS-AF Repository in accordance with the Air Force CIO policy directive to register in the DoD Data Metatag Registry
- The GCSS-AF team will register these data flows on behalf of the application in the DOD Metadata Registry to meet the CIO Policy Directive



Operational Control

• In order to be under the framework CON, the application logic and persistent data must be under the operational management and physical control of the framework operations group. GCSS-AF or the program may actually own the platform



What does it all mean?

- Aside from content and user role management, NO remote administrative access will be allowed
 - Read only access to log files is provided through ISQL
- No "backdoors" to access application
- Data registration with GCSS-AF will mean your data will also be registered with DoD
- GCSS-AF certifies to AFCA that your application does not need a CoN
- C4ISP process will be similar

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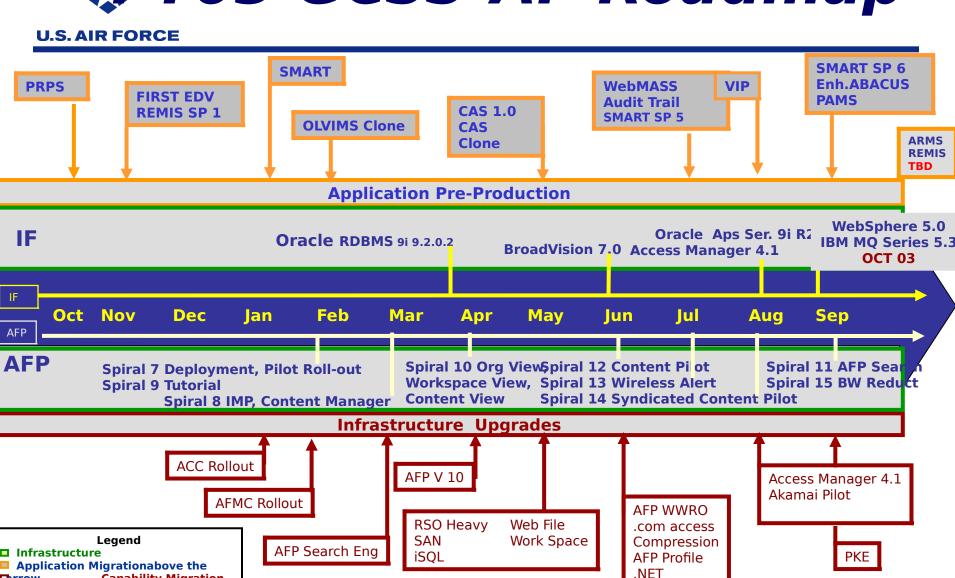
FY03 Accomplishmen ts



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As of:

FY03 GCSS-AF Roadmap



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As of:

Capability Migration

Darrow -

(below arrow)



Recent Accomplishments

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- .COM Access in partnership with DISA
- Self-registration / User Profile
- Autonomy
- On-Line Tutorial ... more are coming
- Org/Base Information Architecture update
- Portal spirals / maintenance releases
- Akamai: AF LINK, HERBB, and Weather site
- Biztalk deployment
- SMART & CAS deployments
- CINC 57 Munitions Pilot/Web Service
- User data Web Service
- Several training sessions
- Portal Index
- Aircrew Resource Management System (ARMS)
- REMIS & PAMS



IF /AFP Infrastructure **Upgrades**FY 03

	Infrastructure Upgrades				
	Integration Framework (IF) FY 03 Upgrades	Scheduled Date			
1	Oracle RDBMS 9i 9.2.0.2	4-Apr-03			
2	BroadVision 7.0	13-J un-03			
3	MicroSoft .NET	1-J ul-03			
4	Access Manager 4.1	30-Sep-03			
5	Oracle Application Server 9i R2 9.0.3	15-Sep-03			
6	IBM MQ Series 5.3	20-Oct-03			
7	IBM WebSphere 5.0	20-Oct-03			
	Air Force Portal (AFP) FY 03 Spirals	Scheduled Date			
1	ACC / AFMC Pilot Roll-out	7-Feb-03			
2	Spiral 8 IMP, Content Manager	13-Mar-03			
3	Spiral 9 Portal Tutorial	7-Feb-03			
4	Spiral 10 Organization, Workspace and Content View	21-Apr-03			
5	World Wide Roll-Out Planning / Start	30-J un-03			
6	Spiral 11 AFP Robust Search	22-Sep-03			
7	Spiral 12 Content Pilot	TBD			

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GCSS-AF

Application / Capability Migration FY 03

		Application / Capability Migration		
		System	Staging Start	
	1	Purchase Request Process System	16-Oct-02	
	2	Financial Information Resource System Acquired Accounting	12-Nov-02	v-02
	3	OLVIMS Failover / Horizontal Clonning	10-Feb-03	
	4	SMART	9-J an-03	
	5	ACC / Langley AFP Roll-out	15-J an-03	
	6	AFMC / WPAFB AFP Roll-out	15-Feb-03	
	7	Air Force Portal Version 11 spiral 1(Search)	26-Mar-03	
	8	BANTU Instant Messenger	1-Apr-03	
	9	Air Force Portal Version 10	25-Apr-03	
	10	Reduce Sign On Application	7-May-03	
	11	Storage Area Network Upgrade - EMC / Veritas Certification	25-Apr-03 7-May-03 13-May-03 19-May-03 23-May-03 23-May-03	
	12	Air Force Portal Version 9 & 10.2 (Tutorial)	19-May-03	
	13	iSQL Database Access Service	23-May-03	
	14	Web File View Service	23-May-03	
	15	Combat Ammunitions System 1.0	13-May-03	
	16	CAS 1.0 Horizontal Cloning	13-May-03	
	17	World Wide Roll Out Planning / Execution Start	13-May-03 15-J un-03	
	18	GCSS-AF DOT COM - BlueCoat	30-J un-03	
	19	Air Force Portal Version 10.1 (Profile)	9-J ul-03	
	20	.NET	1-J ul-03	
	21	SMART Spiral 5	8-J ul-03	
	22	Web MASS	18-J ul-03	
	23	Autonomy Advanced Search Engine	8-Aug-03	
	24	REMIS	18-Aug-03	
	25	HW Compression Solution - Appcelera	3-Sep-03	
Inwork		CEIF Fielding	30-Aug-03	Ì
7	_	Akamai Pilot	30-Aug-03	
		PMEL Automated Management System	9-Sep-03	
0		SMART Spiral 6	10-Sep-03	
2		Enhanced ABACUS	29-Sep-03	1
)	PKE enabled	30-Sep-03	
		Audit Trail	TBD	
		Live Portal Metrics w/ COGNOS	TBD	1
		Congressional Tracking System	TBD	
		ARMS	TBD	

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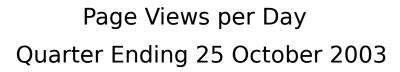
RSO - In production

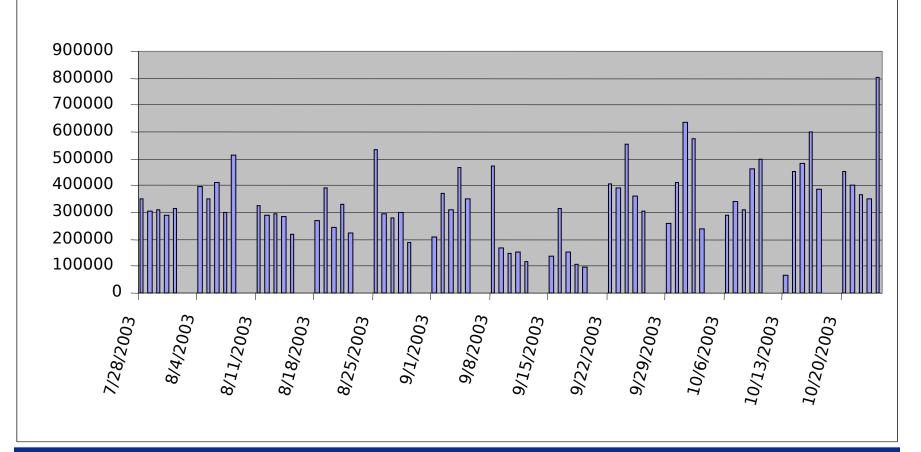
Reduced Sign-On: In Production						
	Heavy		"Lite"			
1	ACCRSS	1	AFEMS			
2	AMCRSS	2	AFPC Secure			
3	EUSAFERSS	3	ECATS			
4	PACAFRSS	4	EDW			
5	SESS	5	ETCA			
6	FIRST	6	G081			
7	OLVIMS	7	ITAM			
8	SMART	8	MP&E			
9	CAS	9	MyPay			
10	LIN/CIRF Gadgets	10	RAMPOD			
11	Fleet Asset Status Gadget	11	SCCOP			
12	Global Freeze Gadget	12	Tricare On-line			
13	Fit2Win	13	Public Affairs Portlet			

RSO Heavy Apps in Pre-production: AIMWTS, AFPC, AFWay, EFIT, ITSC, PEPP, SCRA



AFP 4.0 Availability

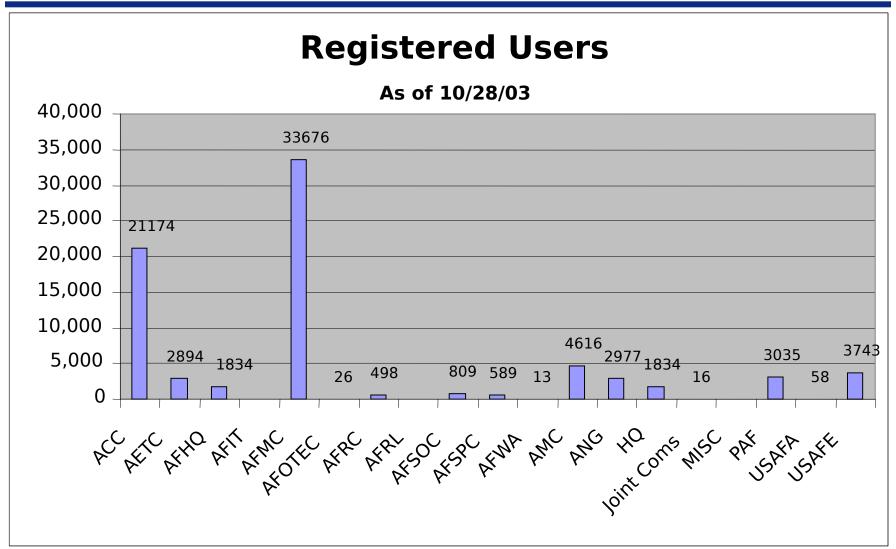




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Air Force Portal Users

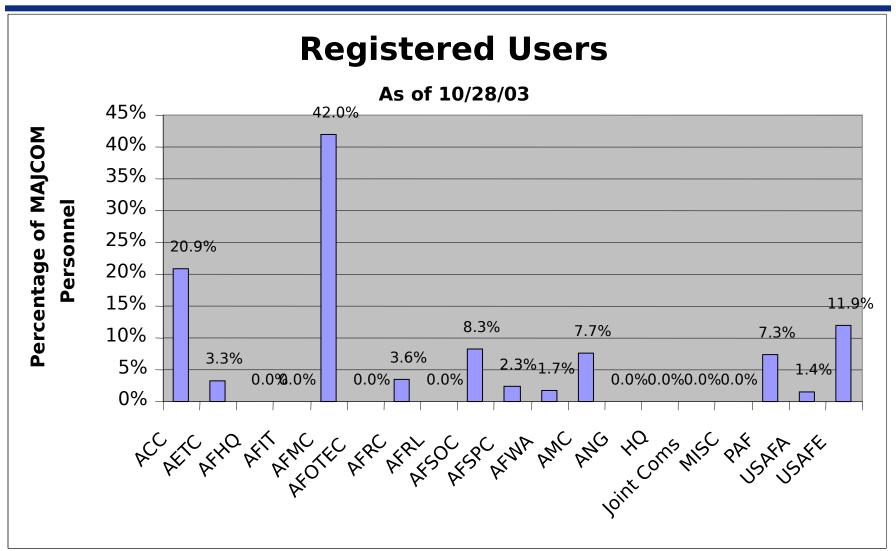


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Air Force Portal Users

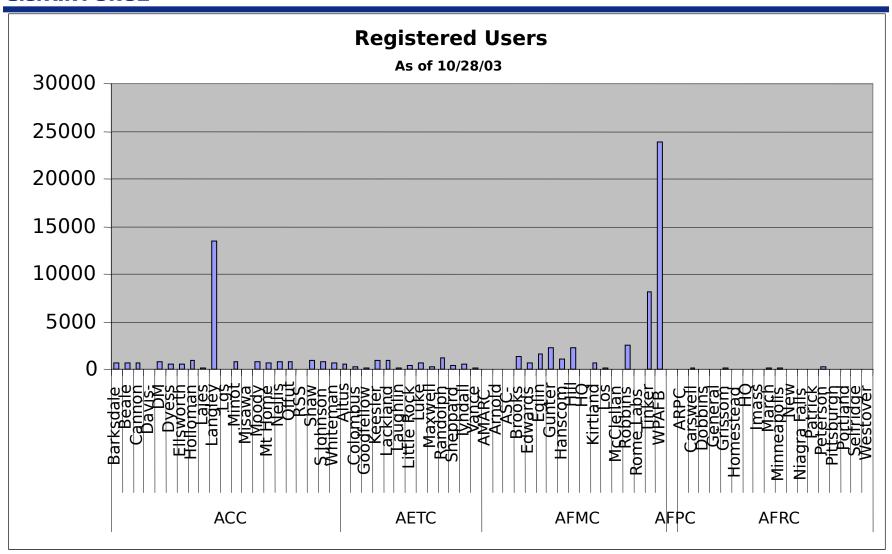


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Air Force Portal Users

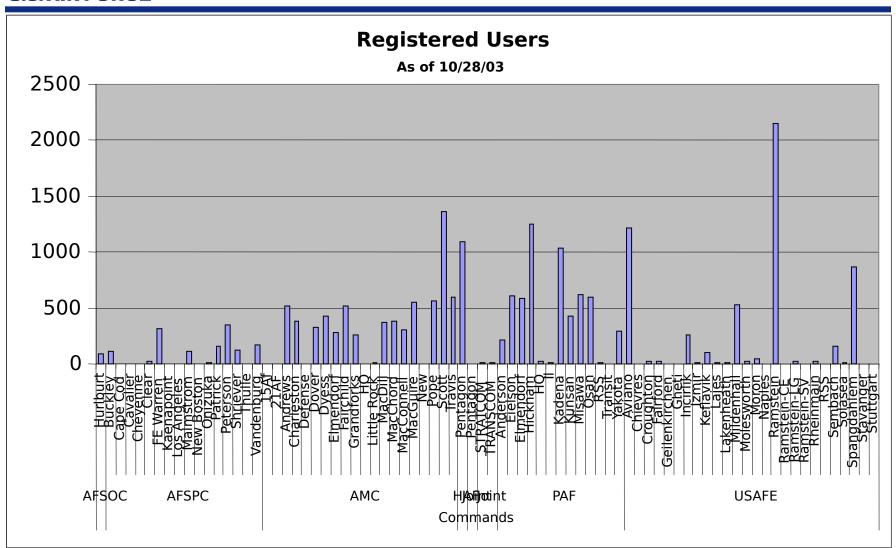


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Air Force Portal Users

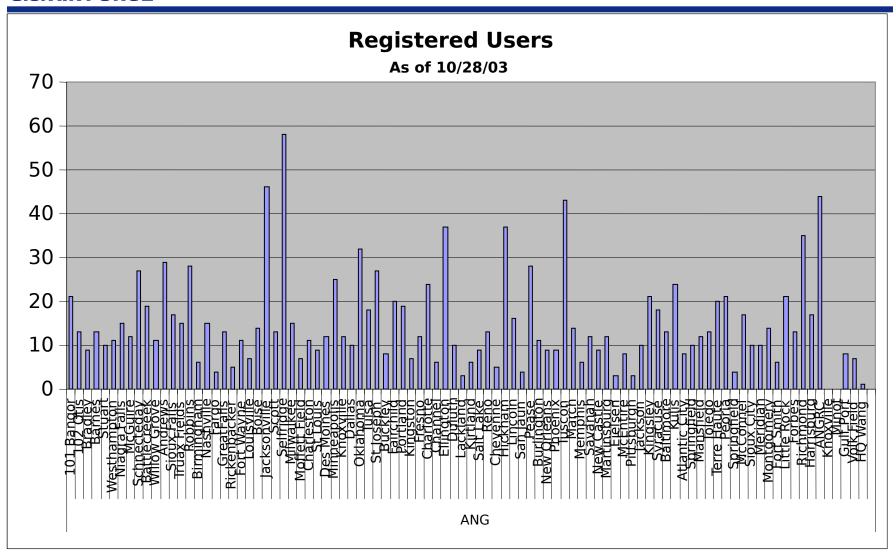


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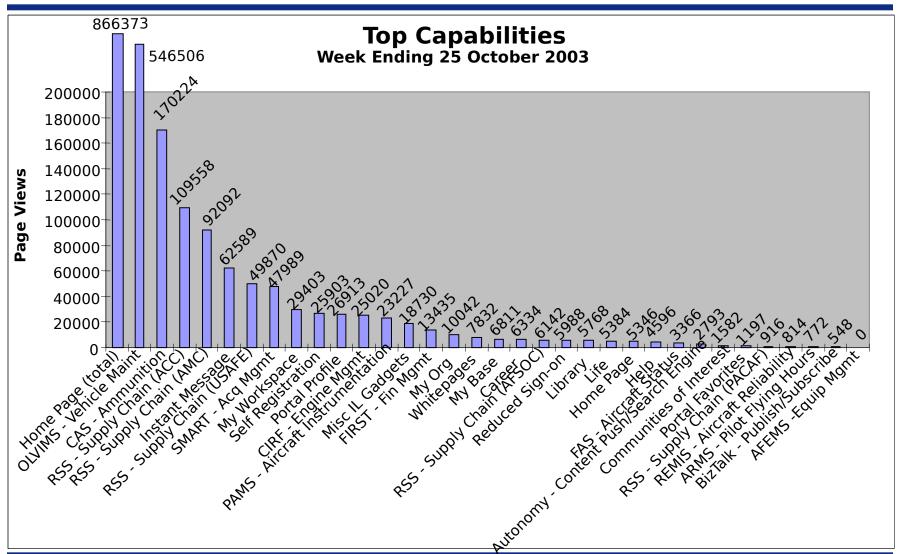


Air Force Portal Users





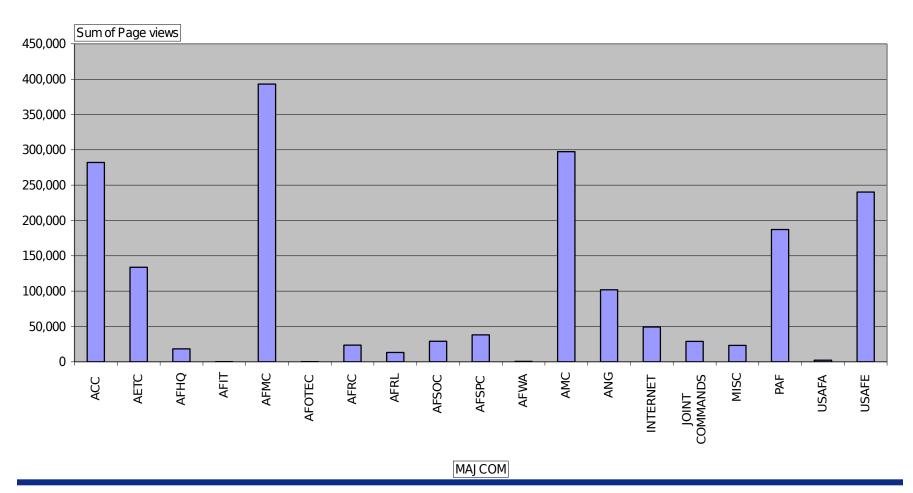
Top Capabilities





Page Views Per MAJCOM

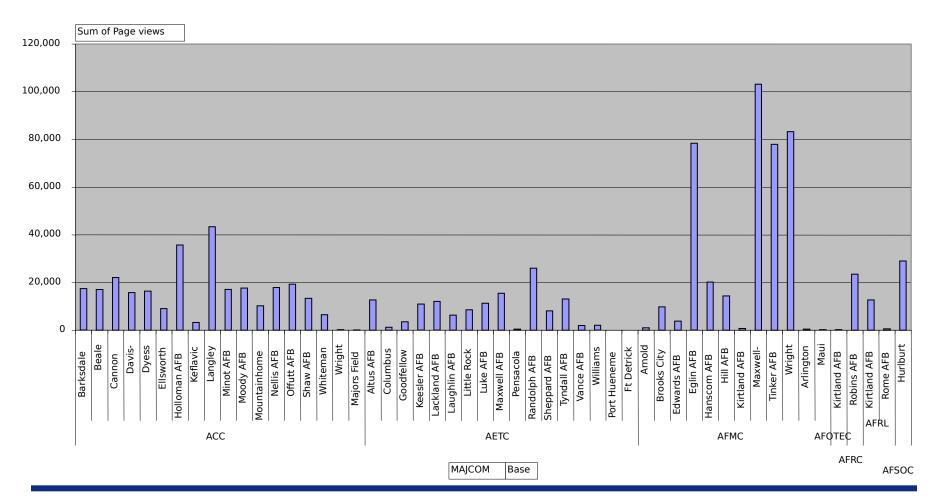
Portal Page Views per MAJ COM Week Ending 25 October 2003





Page Views Per Base

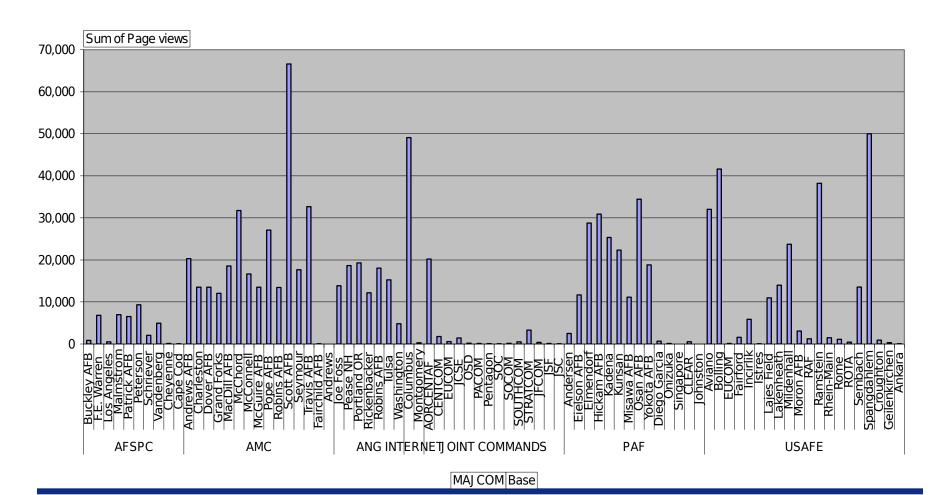
Pageviews per Base Week Ending 25 October 2003





Page Views Per Base

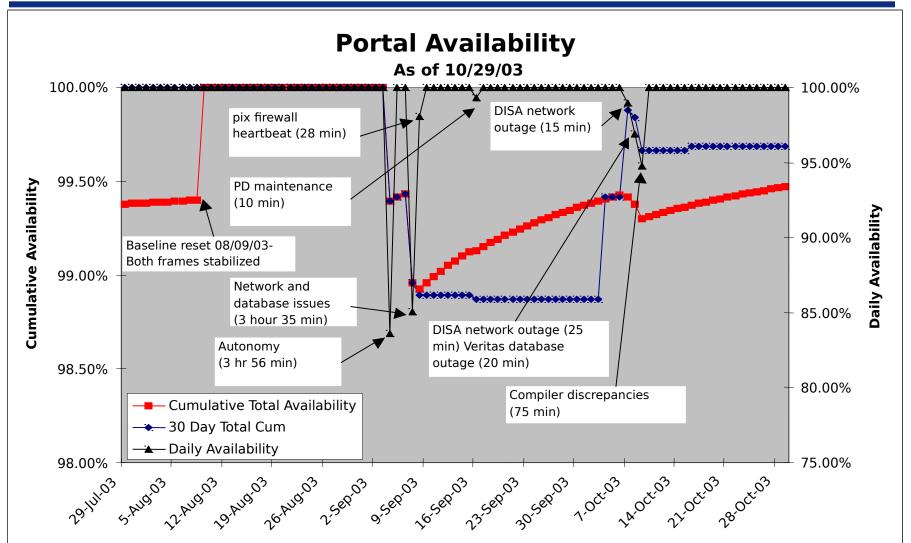
Pageviews per Base Week Ending 25 October 2003



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AFP 4.0 Availability



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FY04 Plans

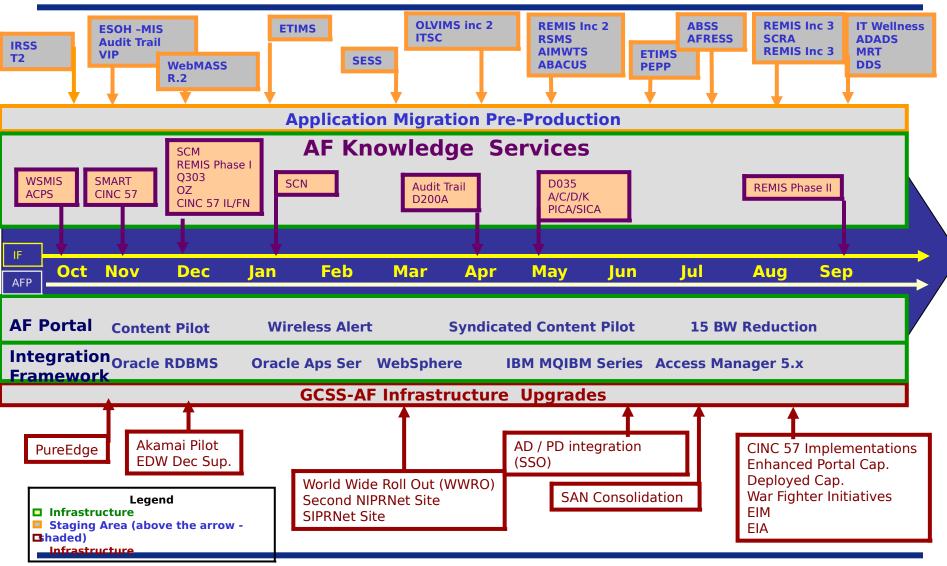


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FY04 GCSS-AF Roadmap



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Early FY04 Activities

- Workspace customization
- Import internet favorites
- Public Key Enablement



PK-E CAC Authentication

Critical Success Factors:

- Coordination and support of the PKI SPO, AFCA, JITC, AFIWC, DISA
- Support of remote testing/development over the Internet

Accomplishments:

■ RFP 15 July 2003

Proposal Submitted25 July 2003

Task Awarded8 September 2003

Task Kickoff Meeting
8 September 2003

Schedule

Design Review 3 October 2003

Phase I (BlueCoat on NIPRNET) 26 November 2003

Phase II (Akamai on NIPRNET) 13 February 2004

Phase III (BlueCoat on Internet) 28 February 2004



Early FY04 Activities

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- Workspace customization
- Import internet favorites
- Public Key Enablement
- Password Reset
- Active Directory / Access Manager integration
- Collaborative Tools / EIM: partnership with Col Cox
 - PureEdge link up
- Near real-time metrics with COGNOS
- Performance monitoring with TeamQuest
- End-to-end performance measurement



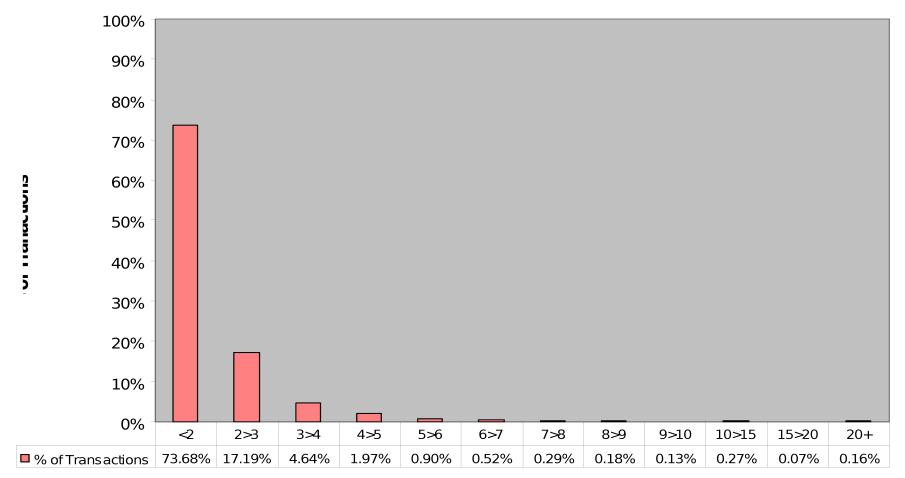
What is End-to-End Performance?

- End-to-End Performance
 - Deals with the performance concepts surrounding data transaction between the end client and backend origin servers.
 - Typically results in quantitative measurements such as:
 - Time: elapsed time between a client-side request and when data is delivered back to the requesting client.
 - Bandwidth: resources of bandwidth utilized at sections of, or throughout the entire, delivery route.
 - Rendering: encompassing data segmenting and computing resources required at delivery to render the response as useful information.



OLVIMS Response Time

OLVIMS Transaction Response Times Percentages 19 Oct - 25 Oct 03 AF Wide

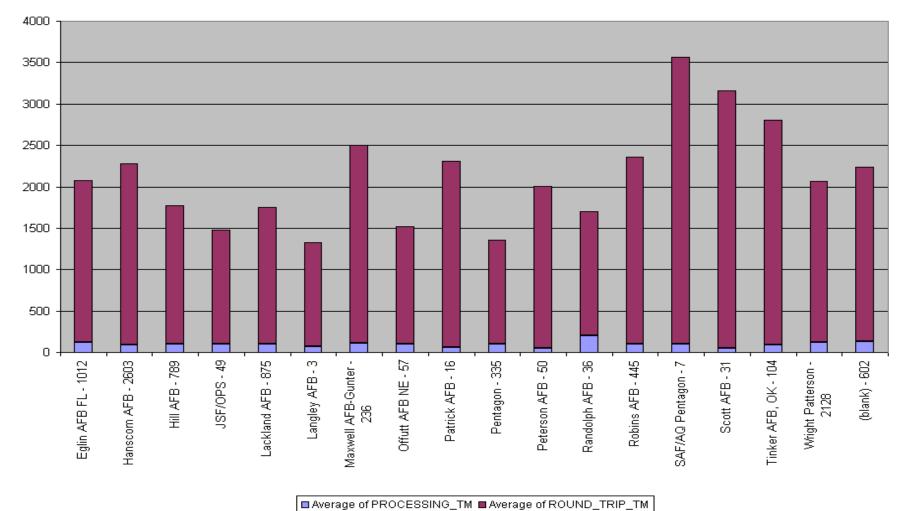


Response Time Range



SMART Response Times by Base in milliseconds

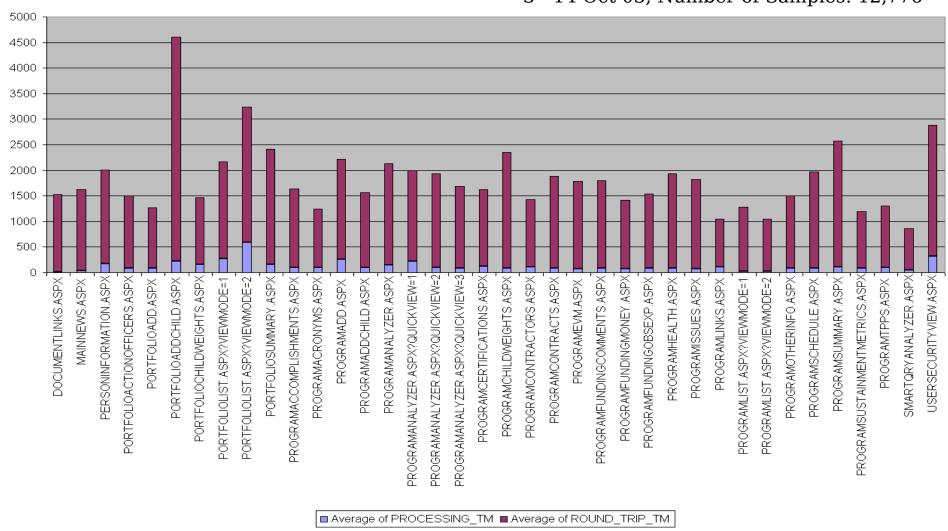
3 - 14 Oct 03, Number of Samples: 12,776





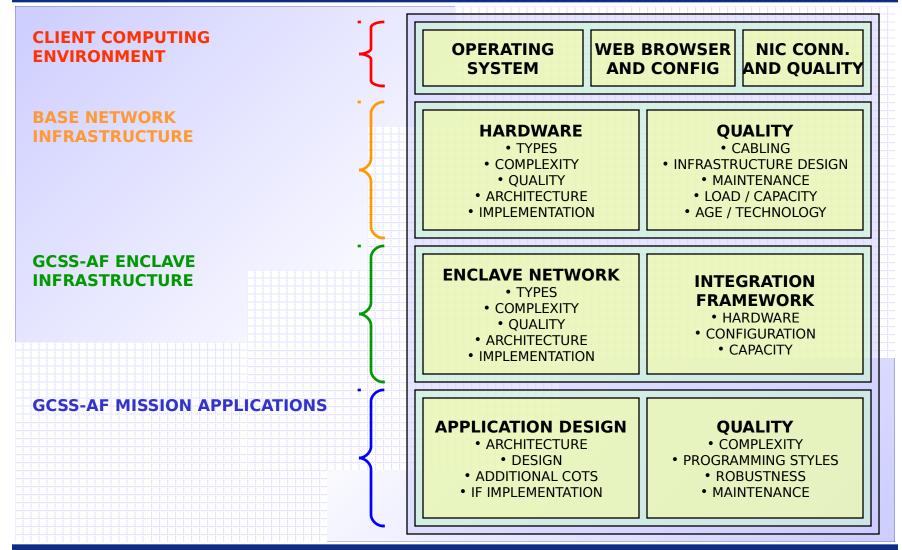
SMART Response Times by Function in milliseconds

3 - 14 Oct 03, Number of Samples: 12,776





End-to-End Performance U.S. AIR FORCE With GCSS-AF Visual Layer





IF /AFP Infrastructure

FY 04

	FY 04 Planned Infrastructure Upgrades		
	Integration Framework (IF) FY 04 Upgrades	Scheduled Date	
1	Oracle RDBMS	Planning Stage	
2	BroadVision	Planning Stage	
	Enterprise Application Interation (EAI)	Planning Stage	
3	MicroSoft .NET	Planning Stage	
4	Access Manager	Planning Stage	
5	Oracle Application Server	Planning Stage	
6	IBM MQ Series	Planning Stage	
7	IBM WebSphere	Planning Stage	
	Air Force Portal (AFP) FY 04 Spirals	Scheduled Date	
1	Spiral 13 Wireless Alert - Candidate	18-J ul-03	
2	Spiral 14 Syndicated Content Pilot - Candidate	15-Aug-03	
3	Spiral 15 Bandwidth Reduction - Candidate	12-Sep-03	
4	Spiral x	Planning Stage	
5	Spiral x	Planning Stage	
6	Spiral x	Planning Stage	
7	Spiral x	Planning Stage	
8	Spiral x	Planning Stage	
9	Spiral x	Planning Stage	



GCSS-AF Application Migration FY 04

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Sorted by Staging Area Start Date

	FY 04 Planned Application Migration			
	System	Acronym	Staging Start	
1	Information & Resource Support System	IRSS	14-Oct-03	
2	SAF/FMBIS Tuition Rates Submission Tool	T2	23-Oct-03	
3	Environmental Safety and Occupational Health Management Information System	ESOH-MIS	3-Nov-03	
4	Audit Trail	AT	20-Nov-03	
5	Visible Inventory Process	VIP	20-Nov-03	
6	WebMASS Release 2.x	WebMASS	16-Dec-03	
7	Enhanced Techdata Management Information Systems (Spiral 1)	ETIMS	1-J an-04	
8	SMART Spiral 7	SMART sp 7	7-J an-04	
9	Suicide Event Surveillance System	SESS	19-Mar-04	
10	Executive Facilities Information Tool	EFIT	9-Apr-04	
	ITSC	ITSC	30-Apr-04	
	On-Line Vehicle Interactive Management System (Increment 2)	OLVIMS	30-Apr-04	
13	Reliability and Maintainability Information System (Increment 2)	REMIS	7-May-04	
14	RSMS	RSMS	7-May-04	
	Aeromedical Information Waiver Tracking System	AIMWTS	21-May-04	
16	Enhanced ABACUS	ABACUS	28-May-04	
	Enhanced Techdata Management Information Systems (Spiral 2)	ETIMS	7-J un-04	
18	PEPP	PEPP	11-J un-04	
19	AFRESS	AFRESS	2-J ul-04	
	ABSS	ABSS	23-J ul-04	
	SCRA	SCRA	18-Aug-04	
	Reliability and Maintainability Information System (Increment 3)	REMIS	20-Aug-04	
	Alcohol and Drug Abuse Data System	ADADS	3-Sep-04	
	IT Wellness	IT Wellness	24-Sep-04	
	Manpower Requirements Toolbox	MRT	24-Sep-04	
	DDS	DDS	24-Sep-04	
	SMART Spiral 6	SMART sp 6		
	SMART Spiral 7	SMART sp 7	TBD	
	Air Force Medical Service Knowledge Exchange	AFMS kx	TBD	
	Deployment Qualification System	DQS	TBD	
31	Other War Reserve Material Requirements / Spiral 1	OWRMR	TBD	

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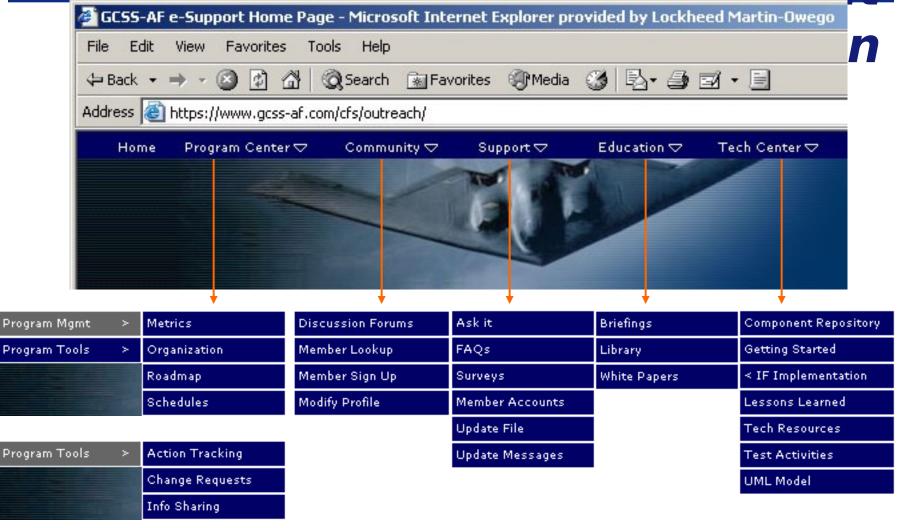


GCSS-AF Capability Enhancements FY 04

FY 04 Planned Capability Enhancements		
Capability	Status	
PureEdge Deployment - DISA Montgomery	30-Nov-03	
Edge Server Implementation	31-Dec-03	
EDW Decision Support Tool	31-Dec-03	
Second NIPRNet Site	31-Mar-04	
Air Force Portal World Wide Roll Out	15-Mar-04	
SIPRNet Site	15-Mar-04	
Single Sign-On (SSO) -(Active Directory / Policy Director Integration)	15-J un-04	
SAN Consolidation	31-J ul-04	
Enterprise Information Management (EIM) - ESC/MM solution	15-Sep-04	
Enterprise Application Integration (EAI)	15-Sep-04	
Multiple Application Migration - Outreach	30-Sep-04	
Reduced Sign-on Migration (RSO-Heavy) - Outreach	30-Sep-04	
Enhanced Portal Capabilities - Spirals	30-Sep-04	
Deployed Capability	30-Sep-04	
COOP / Discover Recovery	30-Sep-04	
CINC 57 Requirments Implementation	30-Sep-04	
IF COTs Product Upgrade	30-Sep-04	
War Fighter Initiative	30-Sep-04	



GCSS-AF.Com Website Contains Current



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My Contact Info

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Back-ups





- New process coming
- Should be affordable, should be easier & should yield C4ISP's that aren't measured in pounds
- Level 4 integration with GCSS-AF will exempt programs from having to staff a C4ISP for their program
 - May need to produce some info to append GCSS-AF C4ISP



How is data registered?

- GCSS-AF has partnered with the AF CIO and functional communities for Data Registration
- Uses DoD Discovery Metadata Service (DDMS)
 - Document that describes what you need to provide for data registration
- Functional areas will have Data Stewards (IL & FM have them)
 - Data Stewards will assist the application determine if they are the Source of Record for data and help with getting their data into the DDMS format
- They pass the record to GCSS-AF and GCSS-AF takes care of the rest



Process for GCSS-AF Level 4 Approval

- Applications will work with outreach
 - Announce intention to run under GCSS-AF CoN/C4ISP
 - Ensure they are on target to meet criteria
- Working into the "90 day out" process
 - Ensure data registration is underway
 - Will do an interim check to ensure on the right track
 - May be several other small checks
- 30 days out need data registration information
- Once verified in Pre-Production, we will issue a statement to AFCA telling them you comply, and fall under our CoN